Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-39. (Canceled)
- 40. (Currently Amended) An alarm for detecting radiation and/or pollutants such as smoke, earbon monoxide or the like having:

a housing means;

an alarm circuit including detection means (DET1) for detecting said radiation and/or pollutants;

first electrical connection means (PL1, PL2) connectable to an external power supply for supplying power to said alarm circuit;

second electrical connection means for connection to a live side of a switch for a lighting circuit;

a first switch means mounted on said alarm housing and actuable by a user to generate a respective pulse for each actuation thereby;

and control means responsive to receipt of a preselected number of pulses over a preselected time period to apply a preset control signal to said alarm circuit;

wherein said alarm circuit is responsive to said preset control signal to reset or test said alarm in dependence on said preset control signal.

41. (Previously Presented) An alarm as claimed in claim 40 wherein:

said control means is responsive to the energising and de-energising of the external power supply said preselected number of times over said preselected time period to apply said preset control signal to said alarm circuit.

42-43. (Canceled)

- 44. (Currently Amended) An alarm as claimed in claim 42-40 wherein said first switch means (SW2) is mounted remote from said alarm housing.
- 45. (Currently Amended) An alarm as claimed in claim 43 40 wherein said first switch means (SW2) is adapted for connection to a switch live side of a switch for a lighting circuit.
- 46. (Currently Amended) An alarm as claimed in claim 40 wherein:

 said alarm has second electrical connection means (SL) for connection to a switch live side of
 a switch for a lighting circuit;

and wherein said second electrical connection means is operable to receive pulses caused by user actuation of said switch between its on and off states and apply said pulses to said control means thereby to cause a preset control signal to be applied to said alarm circuit in response to generation of said preselected number of pulses over said preselected time period.

- 47. (Previously Presented) An alarm as claimed in claim 40 further comprising switch means (RL1) for an external light source (LB) and actuable in response to generation of a preselected control signal to energise said light source.
- 48. (Previously Presented) An alarm as claimed in claim 40 further comprising a relay (RL1) and a light source (LB) wherein said relay is actuable in response to generation of a preselected control signal to energise said light source.
- 49. (Previously Presented) An alarm as claimed in claim 40 wherein when said preselected number of pulses over said preselected time period is one, said control means is operable to apply a preset control signal to said alarm circuit thereby to reset said alarm.
- 50. (Previously Presented) An alarm as claimed in claim 40 wherein when said preselected number of pulses over said preselected time period is one, said control means is operable to apply a preset control signal to said alarm circuit thereby to test said alarm.

- 51. (Previously Presented) An alarm as claimed in claim 40 wherein when said preselected number of pulses over said preselected time period is two, said control means is operable to apply a preset control signal to said alarm circuit thereby to test said alarm.
- 52. (Previously Presented) An alarm as claimed in claim 50 wherein when said preselected number of pulses over said preselected time period is two, said control means is operable to apply a preset control signal to said alarm circuit thereby to reset said alarm.
- 53. (Previously Presented) An alarm circuit as claimed in claim 40 wherein said alarm circuit comprises means (TR1) for reducing the sensitivity of said detection means (DET1).
- 54. (Previously Presented) An alarm as claimed in claim 53 wherein said means (TR1) for reducing the sensitivity of said detection means (DET1) is operable in response to generation of a reset control signal by said control means to reduce the sensitivity of said detection means (DET1) for a preselected time period thereby to reset said alarm.
- 55. (Previously Presented) An alarm circuit as claimed in claim 40 wherein said alarm circuit comprises means (TR2) for increasing the sensitivity of said detection means (DET1).
- 56. (Currently Amended) An alarm as claimed in claim 54-55 wherein said means (TR2) for increasing the sensitivity of said detection means (DET1) is operable in response to generation of a test control signal by said control means to increase the sensitivity of said detection means (DET1) for a preselected time period thereby to test said alarm.
- 57. (Previously Presented) An alarm as claimed in claim 40 further comprising: a battery (B1) for supplying power to said alarm.
- 58. (Previously Presented) An alarm as claimed in claim 57 further comprising: a charging circuit including said first electrical connection means (PL1, PL2) for supplying power to a power rail for said alarm and for charging said battery.

- 59. (Previously Presented) An alarm as claimed in claim 57 further comprising an isolating means for selectably electrically disconnecting said battery from said alarm thereby to minimise leakage from said battery when said alarm is inactive.
- 60. (Currently Amended) An alarm as claimed in claim 58-59 wherein: said isolating means comprises a second switch means (TR3) in said power rail switchable between a first, conducting state connecting said battery (B1) to said alarm and a second, non-conduction state disconnecting said battery from said alarm.
- 61. (Previously Presented) An alarm as claimed in claim 60 wherein said charging circuit comprises a third switch means (TR5) switchable between a first, conducting state and a second, non-conducting state in dependence on the voltage on said power rail; and wherein:

when said third switch means (TR5) is in said first, conducting state said third switch means (TR5) is operable to retain said isolating second switch means (TR3) in its conducting state;

and when said third switch means (TR5) is in said second, non-conducting state the state of said third switch means (TR5) is dependent on the voltage on said power rail such that said second switch means (TR3) is non-conducting in response to said voltage on said power rail being below a preselected value indicating a low battery charge, thereby to disarm said alarm during charging of said battery (B1).

- 62. (Previously Presented) An alarm as claimed in claim 61 further comprising a disconnect means actuable to switch said switch means (TR3) into its non-conducting state thereby disabling said switch means and preventing actuation of said alarm.
- 63. (Previously Presented) An alarm as claimed in claim 62 wherein said disconnect means comprises button means movable between a first, OFF position wherein

said switch means (TR3) is rendered non-conducting and a second, ON position wherein said switch means (TR3) is enabled.

64. (Previously Presented) An alarm as claimed in claim 62 wherein:

said switch means (TR3) is a multi electrode semiconductor device having a control electrode for controlling conduction between further electrodes thereof; and said button means is movable into its first, OFF position to vary the potential on said control gate means thereby to render said switch means (TR3) non-conducting.

65. (Previously Presented) An alarm as claimed in claim 63 wherein: said housing comprises:

a first backing plate for mounting on a surface;

a second backing plate detachably mountable on said first backing plate;

and a cover means for covering said backing plates;

and wherein the arrangement of said disconnect means is such that engagement of said second backing plate on said first backing plate moves said disconnect means into its second, ON position thereby to enable said switch means (TR3) and disengagement of said second backing plate from said first backing plate moves said disconnect means into its first, OFF position thereby to disable said switch means (TR3).

- 66. (Previously Presented) An alarm as claimed in claim 59 further comprising indicator means (LED1) operable in response to power on said voltage rail downstream of said isolating means to indicate that said alarm is enabled.
- 67. (Previously Presented) The alarm of claim 40, further comprising:
 switch means (RL1) for a light source (LB), said switch means being actuable
 in response to triggering of said alarm to energise said light source.
- 68. (Previously Presented) The alarm of claim 67 wherein said switch means comprises a relay (RL1) and said light source (LB) is external to said alarm.

- 69. (Previously Presented) The alarm of claim 67 wherein said light source is mounted in said alarm.
- 70. (Withdrawn) An alarm for detecting radiation and/or pollutants such as smoke, carbon monoxide or the like having:

a housing means;

an alarm circuit including detection means (DET1) for detecting said radiation and/or pollutants;

a battery (B1) for supplying power to said;

and an isolating means for selectably electrically disconnecting said battery from said alarm thereby to minimise leakage from said battery when said alarm is inactive.

71. (Withdrawn) An alarm as claimed in claim 70 further comprising: first electrical connection means (PL1, PL2) connectable to an external power supply for supplying power to said alarm circuit;

and a charging circuit including said first electrical connection means (PL1, PL2) for supplying power to a power rail for said alarm and for charging said battery.

72. (Withdrawn) An alarm as claimed in claim 70 wherein:

said isolating means comprises a second switch means in said power rail switchable between a first, conducting state connecting said battery (B1) to said alarm and a second, non-conduction state disconnecting said battery from said alarm.

73. (Withdrawn) An alarm as claimed in claim 71 wherein said charging circuit comprises a third switch means (TR5) switchable between a first, conducting state and a second, non-conducting state in dependence on the voltage on said power rail;

and wherein:

when said third switch means (TR5) is in said first, conducting state said third switch means (TR5) is operable to retain said isolating second switch means (TR3) in its conducting state;

and when said third switch means (TR5) is in said second, non-conducting state the state of said third switch means (TR5) is dependent on the voltage on said power rail such that said second switch means (TR3) is non-conducting in response to said voltage on said power rail being below a preselected value indicating a low battery charge, thereby to disarm said alarm during charging of said battery (B1).

- 74. (Withdrawn) An alarm as claimed in claim 72 further comprising a disconnect means actuable to switch said switch means (TR3) into its non-conducting state thereby disabling said switch means and preventing actuation of said alarm.
- 75. (Withdrawn) An alarm as claimed in claim 74 wherein said disconnect means comprises button means movable between a first, OFF position wherein said switch means (TR3) is rendered non-conducting and a second, ON position wherein said switch means (TR3) is enabled.
- 76. (Withdrawn) An alarm as claimed in claim 74 wherein: said switch means (TR3) is a multi electrode semiconductor device having a control electrode for controlling conduction between further electrodes thereof; and said button means is movable into its first, OFF position to vary the potential on said control gate means thereby to render said switch means (TR3) non-conducting.
 - 77. (Withdrawn) An alarm as claimed in claim 75 wherein:
 said housing comprises:
 a first backing plate for mounting on a surface;
 a second backing plate detachably mountable on said first backing plate;
 and a cover means for covering said backing plates;

and wherein the arrangement of said disconnect means is such that engagement of said second backing plate on said first backing plate moves said disconnect means into its second, ON position thereby to enable said switch means (TR3) and disengagement of said second backing plate from said first backing plate moves said disconnect means into its first, OFF position thereby to disable said switch means (TR3).

78. (Withdrawn) An alarm as claimed in claim 71 further comprising indicator means (LED1) operable in response to power on said voltage rail downstream of said isolating means to indicate that said alarm is enabled.